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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/003,012	11/02/2001	Benjamin N. Eldridge	20206-15	3257
75	90 10/20/2004		EXAM	INER.
Woodard, Emhardt, Naughton, Moriarty and McNett			NGUYEN, VINH P	
Bank One Cente Suite 3700	er/Tower		ART UNIT	PAPER NUMBER
111 Monument	Circle	•	2829	
Indianapolis, IN	N 46204-5137		DATE MAILED: 10/20/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Office Action Commence	10/003,012	ELDRIDGE ET AL.	
Office Action Summary	Examiner	Art Unit	
	VINH P NGUYEN	2829	A.
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	th the correspondence address	Ψ,
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATI - Extensions of time may be available under the provisions of 37 CI after SIX (6) MONTHS from the mailing date of this communicatic - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory p - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a on. a reply within the statutory minimum of thi period will apply and will expire SIX (6) MOI statute, cause the application to become A	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communicati BANDONED (35 U.S.C. § 133).	ion.
Status			
1) Responsive to communication(s) filed on	13 September 2004.		
,	This action is non-final.		
3) Since this application is in condition for all closed in accordance with the practice un	•		is
Disposition of Claims			
4) ⊠ Claim(s) 1-3,5-10,12-16 and 27-41 is/are 4a) Of the above claim(s) 6-9,13-16 and 4 5) ⊠ Claim(s) 1-3,5,10 and 12 is/are allowed. 6) ⊠ Claim(s) 27,35,36 and 40 is/are rejected. 7) ⊠ Claim(s) 28-31,37-39 is/are objected to. 8) □ Claim(s) are subject to restriction at a subject to restriction at a subject to by the Example 10) □ The drawing(s) filed on is/are: a) □	1-44 is/are withdrawn from co and/or election requirement.		
Applicant may not request that any objection to Replacement drawing sheet(s) including the case 11) The oath or declaration is objected to by the	orrection is required if the drawing	g(s) is objected to. See 37 CFR 1.121	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International B * See the attached detailed Office action for	ments have been received. ments have been received in a priority documents have been ureau (PCT Rule 17.2(a)).	Application No n received in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892)	· · · · · · · · · · · · · · · · · · ·	Summary (PTO-413)	
 2) Notice of Draftsperson's Patent Drawing Review (PTO-94 3) Information Disclosure Statement(s) (PTO-1449 or PTO/5 Paper No(s)/Mail Date 	~'	(s)/Mail Date Informal Patent Application (PTO-152)	

Application/Control Number: 10/003,012

Page 2

Art Unit: 2829

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 09/13/04 has been entered.

2. Claims 35-39 objected to because of the following informalities:

In claims 35-37 and 39, it is unclear what "means for reducing a temperature gradient" represents. Is it the same as "energy transmisssive element".

Depend Claim 38 is also objected to since it shares the same indefiniteness with objected claims,

Appropriate correction is required.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 27,35,36 and 40 is rejected under 35 U.S.C. 102(b) as being anticiapted by Carlin et al (Pat # 5,124,639).

As to claim 27, Carlin et al disclose an apparatus having a probe card with a plurality of probes for making contact with an electronic device under test (wafer). Carlin et al also mention that it would have been well known to use a stiffener for preventing the probe card from warping

Application/Control Number: 10/003,012 Page 3

Art Unit: 2829

due to a high temperature (see column 2, lines 23-26). It appears that the stiffener is equivalent to "an energy transmissive element" because it has the same function as the one in the instant claim.

As to claim 35, Carlin et al disclose an apparatus having a probe card with a plurality of probes for making contact with an electronic device (wafer under test). It is noted that the probe card has a device side (bottom surface) faces the wafer under test and a second side (top surface) opposite the device side. Carlin et al also mention that it would have been well known to use a stiffener for preventing the probe card from warping due to a high temperature (see column 2, lines 23-26). It appears that the stiffener is equivalent to "means for reducing a temperature gradient between the device side and the second side of the probe card" because it has the same function as the one in the instant claim.

As to claim 36, it appears that the stiffener is disposed on at least one of the device side and the second side.

As to claim 40, it appears that the temperature gradient is induced when the electronic device (wafer under test) is tested.

5. Claims 1-3,5,10,12, are allowable since the prior art does not disclose an energy transmissive element for transmitting energy to selectively deflect a portion of the probe card and

Application/Control Number: 10/003,012 Page 4

Art Unit: 2829

for controlling the geometric planarity of the probe card and a temperature sensor located near the energy transmissive element for monitoring temperature corresponding to deflection of the probe card.

6. Claims 28-31,41 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The prior art does fails to disclose energy transmissive elements for affecting a temperature on the device side and second side of the probe card and a temperature sensor for monitoring the temperatures on the first device side and a second side of the probe card.

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kimura et al (Pat #5,521,523) disclose probe card assembly thermal influenced from the wafer during probe test.

Kister (pat # 6,064,215) disclose high temperature probe card for testing integrated circuits

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to VINH P NGUYEN whose telephone number is (571)-272-1964.

Application/Control Number: 10/003,012 Page 5

Art Unit: 2829

The fax phone number for the organization where this application or proceeding is assigned is

703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

VINH P. NGUYEN PRIMARY EXAMIN

ART UNIT 2829

10/15/04